US Army Corps of Engineers®
Engineer Research and Development Center

CORPSCON Coordinate Conversion Software

Technology
Version 6.0, is a MS-Windows-based program which allows the user to convert coordinates between Geographic, State Plane, Universal Transverse Mercator (UTM) and US National Grid systems on the North American Datum of 1927 (NAD 27), the North American Datum of 1983 (NAD 83) and High Accuracy Reference Networks (HARNs). Corpscon uses the National Geodetic Survey (NGS) program Nadcon to convert between NAD 27, NAD 83 and HARNs. Corpscon, Version 6.0, performs vertical conversions to and from the National Geodetic Vertical Datum of 1929 (NGVD 29) and the North American Vertical Datum of 1988 (NAVD 88). Vertical conversions are based on the NGS program Vertcon and can be performed for the continental U.S. only. Corpscon, Version 6.0, will also calculate geoid-ellipsoid separations based on the NGS program GeoidXX (XX = 90, 93, 96, 99, and 03). Geoid-ellipsoid separations can be calculated for the Continental U.S., Alaska, Hawaii and Puerto Rico/U.S. Virgin Islands.

Problem
Geospatial data gathered from different sources, different agencies, or historical archives, may have been collected in different coordinate systems or datums. In order to combine these types of data, they must be transformed or converted into a common coordinate system and/or datum. CORPSCON provides consistent conversions between various coordinate systems and datums within the Continental U.S., Alaska, Hawaii and Puerto Rico/U.S. Virgin Islands.

Expected Cost To Implement
CORPSCON has a Microsoft Windows (MS-Windows)-based Graphical User Interface that allows the user to specify the type of conversion desired and allows data entry by key-in or batch file. The program requires a PC with a 80386 (or higher) processor and about 20 megabytes of hard disk space. MS-Windows95/98/NT/2000/XP is also required.

Benefits/Savings
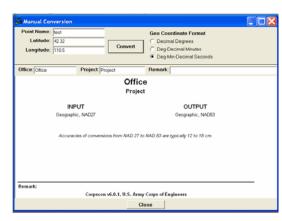CORPSCON has become the industry standard for coordinate and datum conversions within the US.

Status
Version 6.0 is the current release of CORPSCON and is available via the Internet.

ERDC POC
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Distribution Sources
The program is available via the Internet from http://www.tec.army.mil/products.html under Software Available, Geospatial Applications Software, CORPSCON.

Available Documentation
Documentation is distributed with the software.

Available Training   CORPSCON is used in PROSPECT Survey I, II, III, and IV classes.

Available Support   Due to restricted resources, very limited assistance is available to non-Corps of Engineers users. For frequently asked questions and answers, please see our Frequently Asked Questions.